

AMENDMENTS TO THE CLAIMS

IN THE CLAIMS:

Please amend the claims as follows:

1. (Previously Presented) A method for displaying OSD menu items on a screen, the method comprising:

displaying a first menu level having a plurality of main menu items on a first region of the screen, each menu item located in a separately delineated space;

opening a separately delineated space between a first main menu item selected from the main menu items and a second main menu item adjacent to the first main menu item such that the first main menu item is not displayed in said separately delineated opened space; and

displaying, in the separately delineated opened space, a second menu level having at least one sub-menu item related to the first main menu item if the first main menu item is selected, such that if the first main menu item selected is video, then at least one sub-menu item related to the video is displayed.

2. (Previously Presented) A method of claim 1, wherein in the displaying steps, the main menu items and the at least one sub-menu item are displayed in a direction from the top to the bottom of the screen.

3. (Previously Presented) A method of claim 1, wherein in the displaying steps, the main menu items and the at least one sub-menu item are displayed in a direction from the left to the right of the screen.

4. (Previously Presented) A method of claim 1, wherein the main menu items are displayed simultaneously when a user's request to display the first menu level is input through a selecting device.

5. (Previously Presented) A method of claim 1, wherein the main menu items are sequentially displayed within a predetermined time period when a user's request to display the first menu level is input through a selecting device.

6. (Previously Presented) A method of claim 1, wherein in the step of displaying the second menu level, sub-menu items are continuously displayed, starting from a point at which a display of the first main menu item ends to a point at which a display of the second main menu item begins.

7. (Previously Presented) A method of claim 6, wherein the sub-menu items are displayed simultaneously when a user's request to display the second menu level is input through a selecting device.

8. (Previously Presented) A method of claim 6, wherein the space slides open within a predetermined time period and the sub-menu items are sequentially displayed in the opened space as the space slides open, when a user's request to display the first menu level is input through a selecting device.

9. (Previously Presented) A method of claim 1, further comprising displaying the screen in a first color;

wherein the main menu items are displayed in a second color, and the at least one sub-menu item is displayed in a third color; and

wherein two of the first, second, or third colors are identical or all three of the first, second and third colors are different.

10. (Previously Presented) A method of claim 1, further comprising displaying the screen in a first luminance;

wherein the main menu items are displayed in a second luminance, and the at least one sub-menu item is displayed in a third luminance; and

wherein two of the first, second, or third luminances are identical or all three of the first, second and third luminances are different.

11. (Previously Presented) A method for displaying a menu in an OSD device, the method comprising:

(a) displaying a plurality of main menu items and an item indicator on a screen;

(b) opening a first space between a first main menu item and a second main menu item adjacent to the first main menu item when the first main menu item is selected from the main menu items using the item indicator such that the first main menu item is not displayed in said opened space;

(c) displaying, in the first space, at least one sub-menu item related to the first main menu item if the first main menu item is selected, such that if the first main menu item selected is video, then at least one sub-menu item related to the video is displayed;

(d) erasing the displayed at least one sub-menu item and closing the first space when a new main menu item is selected from the main menu items using the item indicator;

(e) opening a second space between the selected new main menu item and a main menu item adjacent to the new first main menu item; and

(f) displaying, in the second space, at least one sub-menu item corresponding to the selected new main menu item.

12. (Previously Presented) A method of claim 11, wherein a main menu item is selected when a user positions the item indicator on that main menu item.

13. (Previously Presented) A method of claim 11, wherein a main menu item is selected when a user positions the item indicator on that main menu item and enters a selection key.

14. (Previously Presented) A method of claim 11, wherein the item indicator is either a highlight or a cursor.

15. (Previously Presented) A method of claim 11, wherein the main menu items are displayed simultaneously on the screen when a user's request a display of the main menu items through a selecting device.

16. (Previously Presented) A method of claim 11, wherein the main menu items are sequentially displayed within a predetermined time period when a user's request to display the main menu items is input through a selecting device.

17. (Original) A method of claim 11, wherein sub-menu items corresponding to a main menu item are displayed simultaneously when a user selects a main menu item using the item indicator.

18. (Previously Presented) A method of claim 11, wherein at least one of the first and second spaces slides open within a predetermined time period and

sub-menu items corresponding to a selected main menu item are sequentially displayed in the corresponding opened space, when a user selects a main menu item using the item indicator.

19. (Previously Presented) A method for displaying a menu in an OSD device, comprising the steps of:

(a) displaying a plurality of main menu items in separately delineated spaces in a first region of a screen when a user requests a display of main menu items using an item indicator and a selecting device;

(b) opening a first separately delineated space between a first main menu item in a separately delineated space and a second main menu item in a separately delineated space adjacent to the first main menu item's separately delineated space when the first main menu item is selected from the displayed main menu items using the item indicator and the selecting device such that the first main menu item is not displayed in said separately delineated opened space;

(c) displaying, in the first separately delineated opened space, at least one sub-menu item related to the first main menu item;

(d) displaying a function control window corresponding to a selected sub-menu item in a second region of the screen, when a sub-menu item is selected from the displayed at least one sub-menu item using the item indicator and the selecting device; and

(e) controlling a function in the displayed function control window using the selecting device and the item indicator.

20. (Original) A method of claim 19, wherein the first main menu item is selected when a user positions the item indicator on the first main menu item.

21. (Original) A method of claim 19, wherein the first main menu item is selected when a user positions the item indicator on the first main menu item and enters a selection key on the selecting device.

22. (Previously Presented) A method of claim 19, wherein in said (a), the plurality of main menu items are simultaneously displayed.

23. (Previously Presented) A method of claim 19, wherein in said (a), the plurality of main menu items are sequentially displayed within a predetermined time period.

24. (Previously Presented) A method of claim 19, wherein in said (c), sub-menu items corresponding to the first main menu item are displayed simultaneously when the user selects the first main menu item in said (b).

25. (Previously Presented) A method of claim 19, wherein in said (c), the first space slides open within a predetermined time period and sub-menu items corresponding to the first main menu item are sequentially displayed in the first space as the first space slides open, when the user selects the first main menu item in said (b).

26. (Previously Presented) A method of claim 19, wherein said (a) displays the screen in a first color and displays the plurality of main menu items in a second color, said (c) displays the at least one sub-menu item in a third color, and said (d) displays the function control window in a fourth color; and

wherein at least two of the first, second, third or fourth colors are identical or all four of the first, second, third and fourth colors are different.

27. (Previously Presented) A method of claim 19, wherein said (a) displays the screen in a first luminance and displays the plurality of main menu items in a second luminance, said (c) displays the at least one sub-menu item in a third luminance, and said (d) displays the function control window in a fourth luminance; and

wherein at least two of the first, second, third or fourth luminances are identical or all four of the first, second, third and fourth luminances are different.

28. (Previously Presented) A method of claim 19, further comprising:

(f) erasing the displayed at least one sub-menu item and closing the first space when a new main menu item is selected using the item indicator and the selecting device;

(g) opening a second space between the selected new main menu item and a main menu item adjacent to the selected new first main menu item; and

(h) displaying, in the second space, at least one sub-menu item corresponding to the selected new main menu item.

29. (Original) A method of claim 19, further comprising:

(f) erasing the displayed function control window from the second region of the screen when a new sub-menu item is selected using the item indicator and the selecting device; and

(g) displaying, in the second region, a function control window corresponding to the new sub-menu item.

30. (Previously Presented) A method of claim 19, wherein the selecting device is any one of a key panel, a remote controller, a keyboard, and a mouse.

31. (Previously Presented) A method of claim 19, wherein the item indicator is either a highlight or a cursor.

32. (Previously Presented) An OSD device comprising:

a storage which stores a plurality of OSD main menu items, data on at least one sub-menu item corresponding to each of the main menu items, and a system program;

a screen which displays an OSD menu;

a selecting device which allows a user to move an item indicator on the screen and to select a menu item using the item indicator; and

a controller which displays the main menu items from the storage on a first region of the screen in separately delineated spaces, opens a separately delineated space between the separately delineated space of a main menu item selected from the displayed main menu items using the selecting device and a separately delineated space of a main menu item adjacent to the separately delineated space of the selected main menu item such that the main menu items are not displayed in said separately delineated opened space, and displays on the first region of the screen at least one sub-menu item related to the selected main menu item in the separately delineated opened space using the data stored in the storage if the main menu item is selected, such that if the main menu item selected is video, then at least one sub-menu item related to the video is displayed.

33. (Original) An OSD device of claim 32, wherein the selecting device includes at least one direction key to move the item indicator and an enter key to select a menu item.

34. (Previously Presented) An OSD device of claim 32, wherein the selecting device is any one of a key panel, a remote controller, a keyboard, and a mouse.

35. (Previously Presented) An OSD device of claim 32, wherein the item indicator is either a highlight or a cursor.

36. (Previously Presented) A method of claim 1, further comprising displaying, on a second region of the screen, a function control window corresponding to a sub-menu item selected from the displayed at least one sub-menu item, wherein the first and second regions of the screen are non-overlapping parallel regions.

37. (Previously Presented) A method of claim 11, wherein the plurality of main menu items and the at least one sub-menu item are displayed on a first region of the screen; and the method further comprises:

(g) displaying, on a second region of the screen, a function control window corresponding to a sub-menu item selected from the displayed at least one sub-menu item.

38. (Previously Presented) A method of claim 37, wherein the first and second regions of the screen are non-overlapping parallel regions.

39. (Previously Presented) A method of claim 19, wherein the first and second regions of the screen are non-overlapping parallel regions.

40. (Previously Presented) An OSD device of claim 32, wherein the controller displays on a second region of the screen a function control window corresponding to a sub-menu item selected from the displayed at least one sub-menu item, and the first and second regions of the screen are non-overlapping parallel regions.

41. (Previously Presented) A method of claim 1, wherein the sub-menu items of the second menu level are preset and not modifiable by a user.

42. (Previously Presented) A method of claim 11, wherein the sub-menu items are preset and not modifiable by a user.

43. (Previously Presented) A method of claim 19, wherein the sub-menu items are preset and not modifiable by a user.

44. (Previously Presented) A method of claim 32, wherein the sub-menu items are preset and not modifiable by a user.

45. (Previously Presented) A method for displaying OSD menu items on a screen, the method comprising:

displaying a first menu level having a plurality of main menu items on a first region of the screen, each menu item located in a separately delineated space;

opening a separately delineated space between a first main menu item selected from the main menu items and a second main menu item adjacent to the first main menu item; and

displaying, in the separately delineated_opened space, a second menu level having at least one sub-menu item related to the first main menu item if the first main menu item is selected, such that if the first main menu item selected is video, then at least one sub-menu item related to the video is displayed.

46. (Previously Presented) A method for displaying a menu in an OSD device, comprising the steps of:

(a) displaying a plurality of main menu items in separately delineated spaces in a first region of a screen when a user requests a display of main menu items using an item indicator and a selecting device;

(b) opening a first separately delineated space between a first main menu item in a separately delineated space and a second main menu item in a separately delineated space adjacent to the first main menu item's separately delineated space when the first main menu item is selected from the displayed main menu items using the item indicator and the selecting device;

(c) displaying, in the first separately delineated opened space, at least one sub-menu item related to the first main menu item;

(d) displaying a function control window corresponding to a selected sub-menu item in a second region of the screen, when a sub-menu item is selected from the displayed at least one sub-menu item using the item indicator and the selecting device; and

(e) controlling a function in the displayed function control window using the selecting device and the item indicator.

47. (Previously Presented) An OSD device comprising:

a storage which stores a plurality of OSD main menu items, data on at least one sub-menu item corresponding to each of the main menu items, and a system program;

a screen which displays an OSD menu;

a selecting device which allows a user to move an item indicator on the screen and to select a menu item using the item indicator; and

a controller which displays the main menu items from the storage on a first region of the screen in separately delineated spaces, opens a separately delineated space between the separately delineated space of a main menu item selected from the displayed main menu items using the selecting device and a separately delineated space of a main menu item adjacent to the separately delineated space of the selected main menu item, and displays on the first region of the screen at least one sub-menu item related to the selected main menu item in the separately delineated opened space using the data stored in the storage if the main menu item is selected, such that if the main menu item selected is video, then at least one sub-menu item related to the video is displayed.

48. (New) A method for displaying selectable menu items of an OSD menu displayed on a screen of a digital television, the method comprising:

displaying on the screen a first menu level having a plurality of main menu items, the plurality of main menu items including a first main menu item related to a first set of controllable functions of the digital television and a second main menu item related to a second set of controllable functions of the digital television, each main menu item occupying a separately delineated space

of the first region and the first and second main menu items occupying adjacent spaces among the separately delineated spaces;

allocating, in response to a user selection of one of the first and second main menu items, a new separately delineated space formed by redisplaying the plurality of main menu items to interpose the new separately delineated space between the separately delineated space occupied by the selected main menu item and the separately delineated space occupied by the unselected main menu item, such that the interposed space abuts on each of the separately delineated space occupied by the selected main menu item and the separately delineated space occupied by the unselected main menu item; and

displaying, in the allocated space, a second menu level having at least one sub-menu item related to the digital television controllable functions of the selected main menu item,

wherein, upon a user selection of a main menu item other than the selected main menu item, the first menu level is redisplayed by erasing the at least one sub-menu item displayed in the allocated space, closing the allocated space such that the first and second main menu items again occupy adjacent spaces, and then re-executing said allocating.

49. (New) A method for displaying a menu using an OSD device of a digital television, the method comprising:

displaying in a first region a plurality of selectable main menu items and an item indicator for selecting any one of the plurality of selectable main menu items, each main menu item being related to a corresponding set of controllable functions of the digital television and occupying a separately delineated space of the first region;

allocating, according to a first operation of the item indicator, a new separately delineated space formed by redisplaying the plurality of main menu items to interpose the new separately delineated space between the separately delineated space occupied by the selected main menu item and the separately delineated space occupied by the unselected main menu item, such that the interposed space abuts on each of the separately delineated space occupied by the selected main menu item and the separately delineated space occupied by the unselected main menu item;

displaying, in the allocated space, at least one sub-menu item related to the digital television controllable functions of the main menu item selected by the first operation of the item indicator, the at least one sub-menu item being selectable by a second operation of the item indicator; and

displaying in a second region, according to the second operation of the item indicator, a control function window for enabling at least one function corresponding to the selected at least one sub-menu item.

50. (New) An OSD device of a digital television, comprising:

a storage for storing a system program, an OSD menu successively arranged as a plurality of main menu items, and a set of data values corresponding to at least one sub-menu item assigned to each main menu item, the main menu items including a first main menu item related to a first set of controllable functions of the digital television and a second main menu item related to a second set of controllable functions of the digital television;

a screen for displaying, according to the stored system program, the OSD menu and an item indicator generated to be displayed with respect to the displayed OSD menu;

a selecting device for moving the displayed item indicator with respect to the displayed OSD menu and for selecting any one of the plurality of main menu items according to the movement; and

a controller for controlling the display of said screen,

wherein the plurality of main menu items is displayed such that each main menu item occupies a separately delineated space of the first region and such that the first and second main menu items occupy adjacent spaces among the separately delineated spaces,

wherein, in response to a user selection of one of the first and second main menu items, a new separately delineated space is allocated, the new separately delineated space being formed by redisplaying the plurality of main menu items to interpose the new separately delineated space between the

separately delineated space occupied by the selected main menu item and the separately delineated space occupied by the unselected main menu item, such that the interposed space abuts on each of the separately delineated space occupied by the selected main menu item and the separately delineated space occupied by the unselected main menu item, and

wherein, according to the correspondingly stored set of data values, at least one sub-menu item related to the digital television controllable functions of the selected main menu item is displayed in the allocated space.